(60)

KARNATAKA TEST HOUSE PVT LTD.

MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025

NABL Accredited Lab Certificate No.T-0901

Report No. : KTH/C.AGG/1326-2155/2013-2014 **Date: 27.09.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer*	:	**The Assistant Executive Engineer,** T Dasarahalli Sub division, Bagalagunte BBMP, Bangalore.
Name of the Project*	:	Improvement of roads & drains at Kalahasti Nagara opp. to Kaliyamma temple 6th cross road L/s Dasarahalli in Ward No. 15.
Name of Contractor*	:	Mr.R.Mangalaraju, Bangalore
Source of Sample	:	Supplied by the Contractor.
Sample Received on	:	23.09.2013.
Technical Reference	:	IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	85.6	85 to 100	95 to 100	
3	20	10.2	0 to 20	30 to 70	
4	12.5	0.3	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	13.89	Not specified
2	Elongation Index (%)	40	16.22	Not specified
3	Impact Value (%)	40	24.69	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road, Yeshwanthpur, Bangalore - 560 054.
Tel: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

KARNATAKA TEST HOUSE PVT LTD.

MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025

NABL Accredited Lab Certificate No.T-0901

Report No. : KTH/F.AGG/1326-2156/2013-2014 **Date: 27.09.2013**

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer*	:	**The Assistant Executive Engineer,** T Dasarahalli Sub division, Bagalagunte BBMP, Bangalore.
Name of the Project*	:	Improvement of roads & drains at Kalahasti Nagara opp. to Kaliyamma temple 6th cross road L/s Dasarahalli in Ward No. 15.
Name of Contractor*	:	Mr.R.Mangalaraju, Bangalore
Source of Sample	:	Supplied by the Contractor.
Sample Received on	:	23.09.2013.
Technical Reference	:	IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate (River Sand)

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	98.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	82.7	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	62.8	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	38.9	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	9.6	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	0.8	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Silt Content (%)	3.20	-

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು - 560 073

Note: 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road, Yeshwanthpur, Bangalore - 560 054.
Tel: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

(58)

KARNATAKA TEST HOUSE PVT LTD.

MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025

NABL Accredited Lab Certificate No.T-0901

Report No. : KTH/CEMENT/1326-2157/2013-2014 **Date: 03.10.2013**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer*	:	**The Assistant Executive Engineer,** T Dasarahalli Sub division, Bagalagunte BBMP, Bangalore.
Name of the Project*	:	Improvement of roads & drains at Kalahasti Nagara opp. to Kaliyamma temple 6th cross road L/s Dasarahalli in Ward No. 15.
Name of Contractor*	:	Mr.R.Mangalaraju, Bangalore
Source of Sample	:	Supplied by the Contractor.
Type of cement*	:	Ordinary Portland Cement (OPC)
Brand of cement*	:	Birla Super 53 Grade.
Sample Received on	:	23.09.2013.
Period of test	:	26.09.2013 to 03.10.2013.
Technical Reference	:	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	29.5 %	Not specified	-
2	Initial setting time	164 minutes	Shall not be less than 30 minutes	P
3	Final setting time	271 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 29.71 MPa 39.85 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	328.77 m^2/kg	Shall not be less than 225m 2/kg	P
6	Soundness (Le-chatlier's method)	1.00 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

ಕಂದಾಯ ವಿಭಾಗ
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

Note : 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road, Yeshwanthpur, Bangalore - 560 054.
Tel: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

KARNATAKA TEST HOUSE PVT LTD.

MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025

NABL Accredited Lab Certificate No.T-0901

Report No. : KTH/ST/1326-2158/2013-2014 **Date: 27.09.2013**

TEST REPORT ON STEEL BARS

Name of the Customer*	:	**The Assistant Executive Engineer,** T Dasarahalli Sub division, Bagalagunte BBMP, Bangalore.
Name of the Project*	:	Improvement of roads & drains at Kalahasti Nagara opp. to Kaliyamma temple 6th cross road L/s Dasarahalli in Ward No. 15.
Name of Contractor*	:	Mr.R.Mangalaraju, Bangalore
Source of Sample	:	Supplied by the Contractor.
Sample Received on	:	23.09.2013.
Technical Reference	:	Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000) Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000).
Grade of Steel*	:	Fe-500

TENSILE TEST:

Dia (mm)	8	10	12	Limits as per IS : 1786-2008, Gr. Fe 500
Weight / unit length (kg/m)	0.581	0.891	0.891	8mm – 0.367 Min 10mm – 0.574 Min 12mm – 0.844 Min
0.2% proof Stress (N/mm^2)	547.77	530.79	560.51	500 Min
Tensile Strength (N/mm^2)	636.94	636.94	611.46	8% More than actual 0.2% proof stress but not less than 545 N/mm^2
% Elongation (on 5.65 √AG.L)	24.0	23.3	24.0	12.0 Min.

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	4 dia	No cracks observed. Passes the test.
2.	10	4 dia	No cracks observed. Passes the test.
3.	12	4 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	5 dia	No cracks observed. Passes the test
2.	10	5 dia	No cracks observed. Passes the test.
3.	12	7 dia	No cracks observed. Passes the test.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ

Note: 1) This report is not to be reproduced except in full without our prior permission in writing.
2) The results listed refer only to the tested samples and applicable parameters.

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road, Yeshwanthpur, Bangalore - 560 054.
Tel: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

KARNATAKA TEST HOUSE PVT. LTD.

No.778/44, 8th Cross, Triveni Road, Gokul 1st Stage, 2nd Phase, Bangalore – 560 054.
Tele Fax : 23378383 / 23375326.
E-Mail : kthblr@gmail.com Web Site : www.karnatakatesthouse.com

Report No. : KTH/CT/1326-2159/2013-2014 **Date: 24.09.2013**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
T-Dasarahalli Sub division,
Bagalagunte, BBMP, Bangalore.

Name of the Project*: - Improvement of roads & drains at Kalahasti Nagara opp. to Kaliyamma temple 6th cross road L/s Dasarahalli in Ward No. 15.

Name of the Contractor* : Mr.R.Mangalaraju, Bangalore.

Sample Received on: 23.09.2013

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Drain Wall	M_{20}	02.08.2013	23.09.2013	Above 28 days	22500	8.260	550	24.44
2.		"	"	"	"	"	8.300	528	23.47
3.		"	"	"	"	"	8.410	545	24.22

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

for ***KARNATAKA TEST HOUSE PVT. LTD.***

(SREENIVASA.C.)
TECHNICAL MANAGER

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

Note : 1) This report is not to be reproduced except in full without our prior permission in writing. 2) The results listed refer only to the tested samples and applicable parameters.